

(A) carries out the large-scale capture (including purification and compression) of carbon dioxide from industrial sources;

(B) provides for the transportation and injection of carbon dioxide; and

(C) incorporates a comprehensive measurement, monitoring, and validation program.

(3) Preferences for award

To ensure reduced carbon dioxide emissions, the Secretary shall take necessary actions to provide for the integration of the program under this paragraph with the large-scale carbon dioxide sequestration tests described in section 16293(c) of this title. These actions should not delay implementation of these tests. The Secretary shall give priority consideration to projects with the following characteristics:

(A) Capacity

Projects that will capture a high percentage of the carbon dioxide in the treated stream and large volumes of carbon dioxide as determined by the Secretary.

(B) Sequestration

Projects that capture carbon dioxide from industrial sources that are near suitable geological reservoirs and could continue sequestration including—

- (i) a field testing validation activity under section 16293 of this title; or
- (ii) other geologic sequestration projects approved by the Secretary.

(4) Requirement

For projects that generate carbon dioxide that is to be sequestered, the carbon dioxide stream shall be of a sufficient purity level to allow for safe transport and sequestration.

(5) Cost-sharing

The cost-sharing requirements of section 16352 of this title for research and development projects shall apply to this section.

(b) Authorization of appropriations

There is authorized to be appropriated to the Secretary to carry out this section \$200,000,000 per year for fiscal years 2009 through 2013.

(Pub. L. 110-140, title VII, § 703, Dec. 19, 2007, 121 Stat. 1708; Pub. L. 116-260, div. Z, title IV, § 4003(c)(1), Dec. 27, 2020, 134 Stat. 2539.)

Editorial Notes

AMENDMENTS

2020—Subsec. (a)(3). Pub. L. 116-260 substituted “section 16293(c)” for “section 16293(c)(3)”.

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110-140, set out as a note under section 1824 of Title 2, The Congress.

SHORT TITLE

Subtitle A (§§ 701-708) of title VII of Pub. L. 110-140, which is classified principally to this part, is known as the “Department of Energy Carbon Capture and Sequestration Research, Development, and Demonstration Act of 2007”. See Short Title note set out under section 17001 of this title.

§ 17252. Review of large-scale programs

The Secretary shall enter into an arrangement with the National Academy of Sciences for an independent review and oversight, beginning in 2011, of the programs under section 16293(c) of this title and under section 17251 of this title, to ensure that the benefits of such programs are maximized. Not later than January 1, 2012, the Secretary shall transmit to the Congress a report on the results of such review and oversight.

(Pub. L. 110-140, title VII, § 704, Dec. 19, 2007, 121 Stat. 1709; Pub. L. 116-260, div. Z, title IV, § 4003(c)(2), Dec. 27, 2020, 134 Stat. 2539.)

Editorial Notes

AMENDMENTS

2020—Pub. L. 116-260 substituted “section 16293(c)” for “section 16293(c)(3)”.

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110-140, set out as a note under section 1824 of Title 2, The Congress.

§ 17253. Geologic sequestration training and research

(a) Study

(1) In general

The Secretary shall enter into an arrangement with the National Academy of Sciences to undertake a study that—

(A) defines an interdisciplinary program in geology, engineering, hydrology, environmental science, and related disciplines that will support the Nation’s capability to capture and sequester carbon dioxide from anthropogenic sources;

(B) addresses undergraduate and graduate education, especially to help develop graduate level programs of research and instruction that lead to advanced degrees with emphasis on geologic sequestration science;

(C) develops guidelines for proposals from colleges and universities with substantial capabilities in the required disciplines that seek to implement geologic sequestration science programs that advance the Nation’s capacity to address carbon management through geologic sequestration science; and

(D) outlines a budget and recommendations for how much funding will be necessary to establish and carry out the grant program under subsection (b).

(2) Report

Not later than 1 year after December 19, 2007, the Secretary shall transmit to the Congress a copy of the results of the study provided by the National Academy of Sciences under paragraph (1).

(3) Authorization of appropriations

There are authorized to be appropriated to the Secretary for carrying out this subsection \$1,000,000 for fiscal year 2008.

(b) Grant program

(1) Establishment

The Secretary shall establish a competitive grant program through which colleges and